

Review: Include Title of Assigned Paper Here

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This document introduces general guidelines for writing paper reviews for “CSC 592: Neural Networks and Deep Learning”. This template is based on the ACM Master Article Template, the same used by ACM in conference proceedings or journal publication. All students are strongly encouraged to use the provided L^AT_EX source to generate the paper review.

1 INTRODUCTION

In this class you will be required to read a number of papers. The goal is that you gain experience in reading and evaluating academic papers. Expect to spend 2-3 hours reading the paper and 1-2 hours writing a review. If you are not used to read scientific publications, this time can take longer initially. Due dates for paper reviews are posted on the course website. As indicated in the syllabus, **no late submissions will be accepted**.

You are strongly encouraged to use this template to write your review. We are providing the compiled (PDF) and source files (sources and figures) to replicate this file. If you don’t have a current L^AT_EX distribution in your computer you can use a free web service such as Overleaf¹. If you are using a local distribution, make sure you have installed the “**acmart**” package. This package can be used to prepare articles for any ACM publication — conference or journal, and for any stage of publication, from review to final “camera-ready” copy, to the author’s own version, with *very* few changes to the source.

For further information about the “**acmart**” package, the L^AT_EX User’s Guide available at <https://www.acm.org/publications/proceedings-template>, provides a complete explanation of commands and tips for their effective use.

2 WRITING A PAPER REVIEW

After thoroughly reading the assigned paper, you are expected to write a single document containing the structure described in Table 1.

Table 1. Recommended structure for a paper review

Section title	Expected length	Points
Summary	1/2 page	35 pts
Critique	1/2 page	25 pts
Insights	1/2 page	20 pts
Future Work	1/2 page	20 pts

¹www.overleaf.com

2.1 Summary

The summary provides a high level description of the paper. Some of the questions below can be used to guide your writing:

- What is the research problem the paper attempts to address?
- What are the claimed contributions of the paper?
- How do the authors substantiate their claims?
- What are the main takeaways from the results presented in the paper?

2.2 Critique

In this section you will provide an itemized list of strengths followed by another of weaknesses. When trying to identify strengths and weaknesses, you can analyze as many of the following points as possible: introduction, contributions, significance/importance, related work, methodology, experiments/analysis, conclusion, writing style.

2.3 Insights gained

In this section you will present a description of the most relevant aspects/topics you have learned after reading this paper.

2.4 Future work

Propose one or two ways in which the research work can be further developed. Do not repeat the *Future Work* section of the paper.

3 HOW TO SUBMIT YOUR REVIEWS?

For each assigned paper you will submit a corresponding paper review as a single PDF file. All submissions are done via Gradescope. Once you upload your PDF to Gradescope, you will be asked to mark which pages of your PDF correspond to questions of the assignment. For each question, mark the pages containing the answer by first clicking on a question on the left and then clicking on the corresponding page(s) on the right. Further information about Gradescope submissions is available at <https://www.gradescope.com/help#help-center-item-student-submitting>.

4 ADDITIONAL RESOURCES

The following sections provide additional resources for reading papers and writing your document with L^AT_EX.

4.1 On reading academic papers

If this is the first time that you are reading an academic paper, you are strongly encouraged to read the following resources before completing your first paper review:

- Reading a Computer Science Research Paper [1]
- How to Read a Paper [2]

4.2 Including mathematical formulas

A formula that appears in the running text is called an inline or in-text formula. It can be produced by using `$. $`. For example, `$y=\sigma\left(\mathbf{w}^T\mathbf{x}\right)$` will produce $y = \sigma(\mathbf{w}^T \mathbf{x})$. You can also use the `displaymath` environment to display

equations separated from the text, as the example below:

$$\frac{\partial L}{\partial w_i} = \frac{\partial z}{\partial w_i} \frac{\partial L}{\partial z}$$

4.3 Figures

Figures can be included and automatically referenced in the text using the `includegraphics` and `ref` commands, respectively. Inspect the \LaTeX code provided with this document for more details on how to include the picture shown in Figure 1.



Fig. 1. 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons.

4.4 Compiling \LaTeX code

To compile a \LaTeX source into a PDF file, you can perform the following sequences of commands in your terminal.

```
pdflatex document
bibtex document
pdflatex document
pdflatex document
```

REFERENCES

- [1] Philip W.L. Fong. 2009. Reading a Computer Science Research Paper. *SIGCSE Bull.* 41, 2 (June 2009), 138–140. <https://doi.org/10.1145/1595453.1595493>
- [2] S. Keshav. 2007. How to Read a Paper. *SIGCOMM Comput. Commun. Rev.* 37, 3 (July 2007), 83–84. <https://doi.org/10.1145/1273445.1273458>